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Spring 2005

CS 241: Computer Science II

L. Jane Lin

Wright State University - Main Campus

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CS 241 –Computer Science II (Spring 2005)

12:20 pm to 1:35 pm TR in room 148 Russ Center

Instructor: Dr. L. Jane Lin, 160 Russ Engineering Center
(off the study area inside 158 Russ Engineering Center)

Email: jane.lin@wright.edu

URL: <http://www.wright.edu/~jane.lin>

Office Hours: 11:40am-12:20pm; 1:35-2:00 pm TR RC160 or make an appointment by sending an e-mail

Textbook: *Big C++* by C. Horstmann and T. Budd, Wiley, 2005.

Disks: at least two formatted 3.5” High Density Diskettes

Software: Microsoft Visual C++ 6.0 Compiler (available in the library)

Course Description:

This course is the second in the three course sequence "Introduction to Computer Science" offered by the Computer Science department, WSU. It focuses on tools for building **abstract data types** (using **structure** and **class** concepts in C++) and Object-Oriented Programming. We also begin the study of data structures in this course. **For All CS 241 students, concurrent registration into CS 241 lab is a must.**

Prerequisites: CS 240, MTH 130, MTH 131.

Grading Policy: Final grades will be determined as follows.

4 Programming Assignments	-----	32%
8 Lab Exercises	-----	20%
2 Examinations	-----	28%
1 Final Examination	-----	20%

Grading Scale: The final grade is assigned as follows.

90-100	-----	A
80-below 90	-----	B
70-below 80	-----	C
60-below 70	-----	D
Below 60	-----	F

General Class Policy

It is strongly advised that students attend all lectures and lab sessions. In the event of absence, **a student is responsible for material covered in lecture/lab, and making up all missed work in the timeliest manner.** There is a **lab section** for this course and labs are handled by lab teachers who will guide and check eight laboratory assignments. **Students are required to complete at least two projects and four lab assignments to receive a non-X grade.** Programming projects are due at the beginning of the class on the date they are due. No late submissions are accepted. Always submit your work since partial credit is available. **Examinations** will be given on the dates specified on the class schedule. If a student misses a test, that test has 0 score automatically.

Class Schedule (➔ over)

CS 241 Course Schedule (Spring 2005)

Date	Class Topics and quiz/exam dates	Readings
3-29	Review of C++ Classes and OOP	Chapter 6
3-31	Review of Vectors and Arrays	Chapter 9
4-5	Pointers	Chapter 10

4-7		
4-12 4-14 4-15	Operator overloading Last day to drop without a Grade: Friday, April 15	Chapter 17
4-19	Name Scope Management; Review for exam I	Chapter 20
4-21	Examination 1 (Covers Chapters 6, 9, 10, 17, 20)	
4-26 4-28	Recursion	chapter 14
5-3 5-5	Sorting (simple sorting techniques) Searching (linear and binary search, simple sorting techniques)	chapter 15
5-10 5-12 5-13	Dynamic Memory Allocation ADT List (self-referencing structures) Last day to drop with W Grade: Friday, May 13	chapter 16
5-17	ADT List continues; Review for exam 2	chapter 16
5-19	Examination 2 (Covers Chapters 14-16)	
5-24 5-26	Inheritance	chapter 11
5-31 6-2	Polymorphism; Final Review	chapter 21
6-7	Final Exam (1:00-3:00pm)	

Note: The instructor reserves the right to make changes to the tentative class schedule.